

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	92610	piezo\$1electric\$1 or piezo adj electric	US-PGPUB; USPAT	OR	ON	2006/09/22 17:13
S3	77418	multi-layer or multi adj layer	US-PGPUB; USPAT	OR	ON	2006/03/15 13:45
S4	3754	S2 and S3	US-PGPUB; USPAT	OR	ON	2006/03/15 13:32
S5	10183	(internal or inner) adj electrode	US-PGPUB; USPAT	OR	ON	2006/03/16 11:47
S6	196	S4 and S5	US-PGPUB; USPAT	OR	ON	2006/03/15 13:33
S7	288540	multi-layer or multi adj layer or stacked	US-PGPUB; USPAT	OR	ON	2007/04/30 13:45
S8	737	S2 and S7 and S5	US-PGPUB; USPAT	OR	ON	2006/03/15 13:46
S9	92795	piezo\$1electric\$1 or piezo adj electric	US-PGPUB; USPAT	OR	ON	2006/03/16 11:47
S10	10189	(internal or inner) adj electrode	US-PGPUB; USPAT	OR	ON	2006/03/16 11:47
S11	1829	S9 and S10	US-PGPUB; USPAT	OR	ON	2006/03/16 11:48
S13	1571	S9 and S10 and (\$6layer\$3 or stack\$3)	US-PGPUB; USPAT	OR	ON	2006/03/16 11:49
S14	966	S9 and S10 and (multi\$1layer\$3 or multi adj layer\$3 or stack\$3)	US-PGPUB; USPAT	OR	ON	2006/03/16 11:50
S15	785	S9 and S10 and (multi\$1layer\$3 or multi adj layer\$3 or stack\$3) and ((outer or external) with electrode)	US-PGPUB; USPAT	OR	ON	2006/09/25 12:25
S16	289017	multi-layer or multi adj layer or stacked	US-PGPUB; USPAT	OR	ON	2006/03/16 11:51
S17	739	S9 and S16 and S10	US-PGPUB; USPAT	OR	ON	2006/03/16 11:51
S18	173	S15 not S17	US-PGPUB; USPAT	OR	ON	2006/03/16 11:51
S19	1997	310/328.ccls.	US-PGPUB; USPAT	OR	ON	2006/03/16 13:03
S20	277872	laminat\$3	US-PGPUB; USPAT	OR	ON	2006/03/16 17:24
S21	92795	piezo\$1electric\$1 or piezo adj electric	US-PGPUB; USPAT	OR	ON	2006/03/16 17:24
S22	10189	(internal or inner) adj electrode	US-PGPUB; USPAT	OR	ON	2006/03/16 17:24

## EAST Search History

S23	872	S21 and S22 and S20	US-PGPUB; USPAT	OR	ON	2006/03/16 17:24
S24	83281	(outer or external) with electrode	US-PGPUB; USPAT	OR	ON	2006/03/17 11:06
S25	696	S23 and S24	US-PGPUB; USPAT	OR	ON	2006/03/16 17:24
S26	5	("3565140"   "4633120"   "5165809"   "6316864"   "6707231").PN. OR ("6930435").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 10:25
S27	4	("20010017502"   "5937493"   "6184609").PN. OR ("6661156"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 10:25
S28	7	("4752712"   "5153477"   "5155409"   "5278471"   "5345137"   "5485437"   "6064142").PN. OR ("6765337").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 10:26
S29	7	("4011474"   "4845399"   "5254212"   "5459371"   "6104129").PN. OR ("6700306").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 10:26
S30	45	("3521090"   "3989965"   "4523121"   "4633120"   "4641052"   "4700204"   "4780639"   "4803763"   "4845399"   "4885498"   "4932119"   "4978881"   "4994703"   "5089739").PN. OR ("5438232"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 10:28
S31	10	("2479926").PN. OR ("5252883"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 10:29
S32	22	("1875953"   "2607858"   "2969512"   "3474268"   "3902083"   "3902084"   "4047992"   "4099211"   "4314174"   "4318062"   "4553059"   "4554477"   "4583059"   "4632311"   "5225734"   "5239518").PN. OR ("5475278"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 10:30
S34	7	("5072240"   "5548314"   "5684520"   "5755019"   "5786833"   "5945773"   "5983471").PN. OR ("6862782").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 10:31
S35	8	("4011474"   "4051396"   "5148070"   "5148077"   "5295288"   "5593721"   "6512323").PN. OR ("6731048").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 10:55
S36	2733	(adhesive near3 (band tape)) with insulat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 11:08

## EAST Search History

S37	92795	piezo\$1electric\$1 or piezo adj electric	US-PGPUB; USPAT	OR	ON	2006/03/17 10:56
S38	46	S36 and S37	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 10:56
S41	173	((adhesive near3 (band tape)) with insulat\$3) same (melt\$3 vulcaniz\$3 sinter\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 11:24
S42	0	S41 and S37	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 11:08
S43	10	((adhesive near3 (band tape)) with insulat\$3) same (melt\$3 vulcaniz\$3 sinter\$3) same electrode	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 11:25
S44	4	((("5438232") or ("5475278") or ("20010009344") or ("20020084872")).PN.	US-PGPUB; USPAT	OR	OFF	2006/03/17 11:55
S45	2453	310/328.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/22 17:14
S46	657693	multi\$1layer or multi adj layer or stacked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 09:33
S47	255753	piezo\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 09:34
S48	20445	S46 and S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 09:34
S49	10844	(internal or inner) adj electrode	US-PGPUB; USPAT	OR	ON	2006/09/25 09:34

## EAST Search History

S50	970	S48 and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:01
S51	345	310/340.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:01
S52	1325	310/365-366.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/25 08:02
S53	427	310/365-366.ccls.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 14:04
S54	2951	29/25.35.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 16:45
S55	674	S54 and (vulcan\$6 melt\$3 sinter\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:09
S56	2538	310/328.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 08:01
S57	360	310/340.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 08:01

## EAST Search History

S58	1805	310/365-366.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 08:03
S59	781	(S56 S57 S58) and (vulcan\$6 melt\$3 sinter\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 16:16
S60	5433	(adhesive with (band tape)) with (vulcan\$6 melt\$3 sinter\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 09:45
S61	269160	piezo\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:55
S62	44	S60 and S61	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 12:14
S63	2951	29/25.35.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 14:02
S64	14	S63 and (melt\$3 with insulat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 14:04
S65	2	S63 and (melt\$3 with isolat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 14:04

## EAST Search History

S66	30	(US-20030080651-\$ or US-20040139588-\$ or US-20020084723-\$ or US-20060113871-\$ or US-20020158552-\$ or US-20020153431-\$ or US-20020084872-\$ or US-20010047796-\$ or US-20040178701-\$ or US-20040137972-\$ or US-20040140870-\$ or US-20020043899-\$ or US-20060132001-\$ or US-20020175591-\$).did. or (US-6765337-\$ or US-6661158-\$ or US-7065846-\$ or US-6731050-\$ or US-6731048-\$ or US-6661156-\$ or US-6930435-\$ or US-6700306-\$ or US-5475278-\$ or US-5438232-\$ or US-5252883-\$ or US-6862782-\$ or US-6956166-\$ or US-6700061-\$ or US-6971148-\$ or US-5814920-\$). did.	US-PGPUB; USPAT	OR	ON	2007/04/25 16:16
S67	16	S66 and (vulcan\$6 melt\$3 sinter\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 16:16
S68	82085	adhesive with (vulcan\$6 melt\$3 sinter\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 16:43
S69	1541	S61 and S68	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 16:43
S70	8035	(adhesive with (band tape strip)) with (vulcan\$6 melt\$3 sinter\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 12:53

## EAST Search History

S71	150570	"156".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 09:46
S72	1252	S70 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 15:59
S73	8	S72 and piezo\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 12:52
S74	8738	(adhesive with (band tape strip)) with insulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 12:53
S75	77	S72 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 12:53
S76	333788	multi-layer or (multi adj layer) or stacked	US-PGPUB; USPAT	OR	ON	2007/04/30 13:45
S77	269448	piezo\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:47
S78	15523	S76 and S77	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:47
S79	2046452	insulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:49

## EAST Search History

S80	7446	S78 and S79	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:47
S81	116334	insulat\$3 with (band strip tape)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:49
S82	369	S80 and S81	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 14:24
S83	10	(("20030052949") or ("20020012028") or ("6618943") or ("5980027") or ("6808250")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/30 14:30
S84	94	(piezo\$ and adhesive and insulat\$3 and electrode).clm.	US-PGPUB	OR	ON	2007/04/30 16:26
S85	85	(piezo\$ and adhesive and insulat\$3 and conduct\$3).clm.	US-PGPUB	OR	ON	2007/04/30 16:34
S86	7	(piezo\$ and adhesive and insulat\$3 and conduct\$3 and (sinter\$3 vulcan\$6 melt\$3)).clm.	US-PGPUB	OR	ON	2007/04/30 16:36
S87	10	(piezo\$ and adhesive and insulat\$3 and electrode and (sinter\$3 vulcan\$6 melt\$3)).clm.	US-PGPUB	OR	ON	2007/04/30 16:36